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Trinity College Bulletin, 1961-1962 (Graduate Studies)

Trinity College

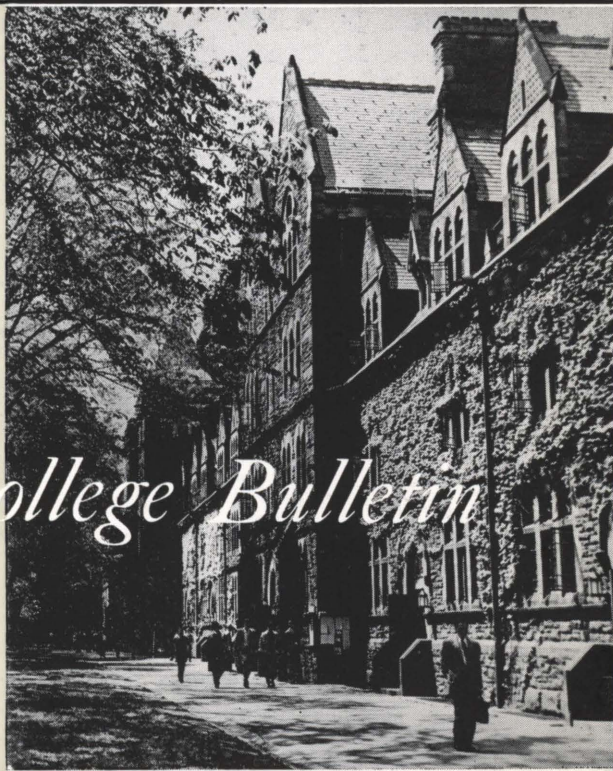
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Trinity College Bulletin

Graduate Studies 1961-1962

August 1961

CALENDAR

1961

Sept. 18, Monday
Nov. 16, Thursday

Christmas term begins
Thanksgiving vacation begins
at 10:00 p.m.

Nov. 27, Monday
Dec. 18, Monday

Classes resume
Christmas vacation begins
at 10:00 p.m.

1962

Jan. 2, Tuesday
Jan. 18, Thursday*

Classes resume
Christmas term ends at 10:00 p.m.

Feb. 5, Monday
March 29, Thursday

Trinity term begins
Spring vacation begins
at 10:00 p.m.

April 2, Monday

Final day for submittal of:
1. Requests for comprehensive examination
2. Application to receive Master's degree

April 9, Monday
May 1, Tuesday
May 24, Thursday*

Classes resume
Final day for submittal of theses
Trinity term ends at
10:00 p.m.

June 10, Sunday

One Hundred and Thirty-sixth
Commencement

June 25, Monday

Summer School begins

* Final examinations in courses requiring them will be administered at the final class meeting of each term.

Second Class Postage paid at Hartford, Connecticut. Published four times a year, March, August, September, and October by Trinity College, Hartford, Connecticut.

TRINITY COLLEGE, HARTFORD 6, CONNECTICUT

REGISTRATION FOR GRADUATE COURSES

CHRISTMAS TERM ONLY

MISS _____
MRS. _____
MR. _____

PLEASE
PRINT

LAST

FIRST

MIDDLE

ADDRESS _____

STREET CITY ZONE STATE

HOME TELEPHONE _____ BUSINESS TELEPHONE _____

COLLEGE LAST ATTENDED _____ DATES OF ATTENDANCE _____

DEGREE HELD _____ COLLEGE _____ YEAR REC'D _____

CITIZEN OF U. S.? _____ UNDER G. I. BILL? _____

SUBJECT

COURSE No.

DAY

EXAMPLE:	ECON.	501	TUESDAY
1.			
2.			

PLEASE COMPLETE BOTH SECTIONS OF THIS CARD

DO NOT DETACH

REGISTRATION FOR GRADUATE COURSES

MISS _____
MRS. _____
MR. _____

PLEASE
PRINT

LAST

FIRST

MIDDLE

ADDRESS _____

STREET CITY ZONE STATE

I AM ENCLOSING \$ _____

FOR _____ HALF COURSES IN THE CHRISTMAS TERM AND REGISTRATION

FEE OF FIVE DOLLARS.

SIGNATURE _____

DO NOT
WRITE
HERE

1. _____

2. _____

Students will register for each term separately. Registrations for the Christmas term will be accepted from the date of publication of the catalogue until the beginning of classes. Please use the cards above for Christmas term registration. Payment of tuition in full and registration fee must accompany the registration.

Registration for the Trinity term must be made on the cards at the back of the catalogue.



Graduate Studies at Trinity College

AMONG the many problems facing American education none is more important than the problem of graduate education. Contemporary culture, constantly increasing in complexity, needs a constantly increasing number of individuals whose education has extended beyond the Bachelor's degree. Unfortunately, the proportion of the population free to engage in graduate study to the exclusion of all other activity is likely to increase little if at all. Society's need for individuals with graduate education must be met in other ways.

A partial solution to this need is provision for further scholarly development of talented men and women who because of financial or family or professional obligations cannot expect ever to engage in full-time graduate study. There are many men and women who are willing to devote much of their leisure time to study and whose ability, previous education and experience, and strong professional or personal motivation insure that the quality of their academic performance will be excellent. For such persons Trinity College has since 1927 offered a program of evening graduate study.

Trinity recognizes that neither society nor the individual is served if an advanced degree earned in part-time study represents a smaller achievement in learning than the same degree earned in full-time study. The conditions under which graduate study can be satisfactorily pursued by persons who must be primarily engaged in other activities are not easily supplied. As a result of its considerable experience with part-time graduate

study Trinity has concluded that the following conditions enable graduate students to progress toward a Master's degree which will represent superior accomplishment; *first*, a limited enrollment of students who are capable, mature, highly motivated; *second*, a Faculty of scholar-teachers; *third*, courses which meet for the longest possible time consistent with the efficient use of the student's necessarily limited time; *fourth*, small classes which meet at the College; *fifth*, excellent library facilities; *sixth*, encouragement of independent research; *seventh*, careful counseling of students to undertake in any semester no more courses than they can complete to the best of their ability. Trinity's provision for each of these requisites will be explained in the pages which follow.

Trinity is a liberal arts college. It recognizes that the distinction between professional and non-professional courses at any level is arbitrary and artificial. A freshman course in chemistry is a professional course if the student becomes a chemist, and the Doctor of Philosophy degree is a professional degree for the teacher of history. At the same time the College is convinced that instruction which concentrates on the specific characteristics of a profession does not prepare the student for more than the immediate future or for problems as yet unanticipated. A liberal arts college maintains that personal and professional development will follow graduate study which provides a basic understanding of one or more of the fundamental fields of knowledge. Such understanding then enables the individual to find for himself solutions to problems which face him, now or in the future. This is the point of view of graduate study at Trinity College.

THE LIBRARY

Graduate study is possible only where there is a fine library. Trinity's collection of almost 400,000 volumes and 100,000 pamphlets, housed in a modern structure embodying the latest in library construction theory and method, provides exceptional opportunities for graduate study. The library adds approximately 6,000 volumes per year and subscribes to over 650 current periodicals.

Seminar classes meet in the library's seminar rooms, close by the volumes they utilize. The Reference Librarian provides assistance in the use of the library in connection with term papers and theses.

STUDENTS

Although undergraduate degrees at Trinity are limited to men, graduate study is open to both men and women.

Normally, students should apply for candidacy for the Master's degree (see below). However, qualified college graduates will be permitted to enter certain courses even though they have not matriculated. **These students must provide a transcript of their undergraduate record prior to the end of the fourth week of classes in their first term of attendance.** They should seek the advice of the Dean of Graduate Studies regarding their choice of courses.

No student who is employed on a full-time basis, whether or not a candidate for the Master's degree; may in his first term of study at Trinity register for more than one half-course. In subsequent semesters a limit of two half-courses is imposed. This rule was established to protect students who might undertake more work than they can accomplish successfully. Students will find that each course requires a large amount of reading at home or in the library, and almost all courses will include the preparation of a term paper or report. The Dean of Graduate Studies is empowered to adjust these restrictions for students employed less than full-time.

CANDIDACY FOR THE MASTER'S DEGREE

Students who expect to work toward a Master's degree and students who are seriously considering study toward this degree are urged to apply as early as possible for matriculation as candidates for the degree. There are two advantages to application prior to, or soon after beginning, graduate study: 1. if the application is not approved the student will be spared the cost of tuition for courses which will not be credited toward a degree; 2. if the application is approved the student can be properly advised on a program of study. **All candidates will be expected to complete a minimum of six half-courses after admission to candidacy.**

Applicants are expected to hold a Bachelor's degree from an accredited college. Recent graduates should have earned an average of B (80) in all undergraduate courses. Less emphasis is placed on the undergraduate standing of applicants whose undergraduate study was completed several years ago, but the professional experience and interests of such applicants will be carefully weighed. All applicants should have a considerable back-

ground in the liberal arts and all should have attained facility in the use of English. In certain cases applicants may be asked to submit the results of the Graduate Record Examination or of other examinations. An interview with the Dean of Graduate Studies or the appropriate departmental representative is required after all data pertinent to the application have been assembled.

Application forms may be obtained from the office of graduate studies. Applications which are completed (application form, transcript and interview) by April 1 will be considered prior to May 1. Applications completed by November 1 will be considered prior to December 1.

DEGREE REQUIREMENTS

A course, identified by a hyphenated number (651-652 for example), is defined as a unit of study for which six or eight hours of credit are awarded. A half-course, identified by a single number (501 for example) carries three or four semester hours of credit.

To receive the Master's degree the candidate must complete a minimum of ten half-courses or the equivalent in full and half-courses at the graduate level with satisfactory grades (see *Grading*). The candidate must demonstrate proficiency in whatever language, if any, his major department specifies. Under certain conditions as many as two half-courses (six semester hours) from another graduate school will be credited toward the requirements for the Master's degree at Trinity. All degree requirements, including the departmental requirements described in this bulletin under the name of each department, must be fulfilled within a period of six years.

A thesis is required of all candidates in economics, English, history, and philosophy, and of some candidates in education and government. Normally, the thesis is the final project undertaken for completion of degree requirements. When a student has chosen a tentative topic or a particular field of study in which he would like to do his thesis research, he is assigned to a thesis adviser by the chairman of his department. (The chairman may, if he deems it necessary, require of the student evidence of his ability to do scholarly writing before assigning him to an adviser or before forwarding notice of the acceptance of the plan and outline of the thesis project.) After the student has met with his adviser and submitted to him a satisfactory plan and outline for

his project, the adviser will signify his approval to the department chairman, who will issue to the student a form entitling him to register with the Graduate Office for course 651-652 of that department. Course credit for the thesis (six semester hours) will be awarded upon its final approval by the adviser and a second reader designated by the chairman of the major department or the Dean of Graduate Studies.

A student undertaking to write a thesis should obtain a copy of the "Instructions Regarding the Preparation and Submission of Master's Theses at Trinity College" from the Graduate Office, and should consult his department chairman to learn of the particular procedures which his department requires.

If the major department specifies that the candidate will take a comprehensive examination in lieu of a thesis the candidate must submit in writing to the Graduate Office prior to April 1 of the year in which he expects to receive the degree a request for the examination. The examination will be scheduled at the convenience of the department in April or May. If the student fails the examination a second and final examination may be requested for administration not earlier than six months after the initial examination. No hours of credit are awarded for the examination.

By April 1 prior to the Commencement at which the student expects to receive his degree he must file an application for conferral of the degree. A form for this purpose will be provided by the Graduate Office on request.

SIXTH YEAR FOR TEACHERS

Programs of study fitted to individual needs are available to teachers who have earned the Bachelor's and Master's degrees. Each program will be planned in conference by the graduate student and the Dean, and certification of satisfactory performance will be furnished at the conclusion of study to whatever authorities the student designates.

GRADING

Students will receive a grade at the end of each course and on their thesis or comprehensive examination. The grades are:

Distinction — High Pass — Pass — Low Pass — Failure

A student who has received two grades lower than pass in

the major field of three such grades regardless of field will not be permitted to enroll for further study.

No more than one half-course in which a student has received a grade of low pass will be credited toward fulfillment of the requirements for the Master's degree.

NON-CREDIT ATTENDANCE

Persons who do not wish to receive credit for specific courses may, with permission of the Dean of Graduate Studies, register as auditors. They will receive no credit and no grade, but a record of their attendance will be made. They need not always fulfill the prerequisites of the course, and are not required to take examinations. The charge will be the same as if the course were taken for credit.

Graduate students who have been accepted as candidates for the Master's degree at Trinity College and who have completed or are currently enrolled in two-half courses at the graduate level will be allowed to audit without charge a total of two half-courses. This privilege is without time limit; the courses may be audited prior to or after the completion of the degree requirements. In each case, however, permission to audit must be obtained from the Dean of Graduate Studies.

REGISTRATION

Students may register by mail on the form inserted in this catalogue, or they may come to the Graduate Office. This office will be open Monday through Friday from 9:00 a.m. to 5:00 p.m. In addition, the Dean will meet students by appointment Monday evenings between 6:30 and 8:00 when the College is in session, and on other evenings prior to the beginning of each term.

All courses are limited in size. Students will be enrolled in each course in the order in which their registration cards are received.

It is each student's responsibility to determine his eligibility to enroll in a specific course. A student is not eligible for credit in a course for which he has not completed the prerequisites. No registration will be accepted after the second meeting of each class, nor will changes be permitted after this day.

Tuition charges are determined on the basis of the number of courses and half-courses for which the student enrolls (see

definition under *Degree Requirements*, page 4). Graduate students should note the statement pertaining to them under the heading, *Non-Credit Attendance*.

Tuition Charges

	<i>Half-Course</i>	<i>Course</i>
Graduate Students	\$ 75	\$150
Undergraduate Students	\$100	\$200

In addition to tuition charges each student must pay a registration fee of five dollars per term. This fee is not refundable. Full payment of all costs must accompany registration for each semester. Registration for the first semester will be accepted from the date of publication of this catalogue until the beginning of classes. Registration for the second semester will be accepted from January 1 until the beginning of classes in that semester.

Each student will fill out at registration a double card. Half of this card is to be used for course registration; the other half will bear information regarding the payment of tuition. Students are asked to fill out the two sections carefully.

It is imperative that students select courses carefully and that they undertake no study for which they are inadequately prepared or which they may be unable to complete. Only in cases of withdrawal made necessary by such unexpected causes as sickness or call to military service will refunds of tuition be made. Such refunds will be made in accordance with this schedule: three-fourths tuition for withdrawal prior to the second week of classes, one-half prior to the third week, one-fourth prior to the seventh week, no refund in any case after that.

The College has a limited number of fellowships for graduate students. Information regarding these may be obtained from the Office of Graduate Studies.

Registration for a course is a commitment to complete the course. Request for withdrawal and reasons for the request must be included in a letter addressed to the Dean of Graduate Studies. Withdrawal is not accomplished by failure to attend classes or by notification to the instructor. Students contemplating withdrawal should, if possible, continue their attendance until a reply to their request is received.

Faculty and Staff

ALBERT CHARLES JACOBS, LL.D.	<i>President</i>
ROBERT MAIER VOGEL, ED.D.	<i>Dean of Graduate Studies</i>
LLOYD CALVERT, M.A.	<i>Assistant to the Dean of Graduate Studies</i>
PAULINE M. LEET, A.B.	<i>Secretary</i>
CAROLE M. LAWSON, B.S.	<i>Clerk</i>

JOHN HAROLD AHLBERG, PH.D.	<i>Lecturer in Mathematics</i>
MYRON GEORGE ANDERSON, PH.D.	<i>Assistant Professor of Philosophy</i>
ROBERT CLIFFORD BLACK, III, PH.D.	<i>Associate Professor of History</i>
KENNETH WALTER CAMERON, PH.D.	<i>Associate Professor of English</i>
ALAN CASSELS, PH.D.	<i>Instructor in History</i>
WARD SCHENK CURRAN, PH.D.	<i>Instructor in Economics</i>
NORTON DOWNS, PH.D.	<i>Associate Professor of History</i>
LEROY DUNN, PH.D.	<i>Assistant Professor of Economics</i>
DONALD BROWN ENGLE, M.A.	<i>Librarian</i>
VERNON LEROY FERWERDA, PH.D.	<i>Associate Professor of Government</i>
ALBERT LODEWIJK GASTMANN, M.A.	<i>Instructor in Government</i>
FREDERICK LANDIS GWYNN, PH.D.	<i>Goodwin Professor of English</i>
STEPHEN PETER HOFFMAN, JR., PH.D.	<i>Associate Professor of Mathematics</i>
ROBERT FREEMAN KINGSBURY	<i>Associate Professor of Physics</i>
PHILIP L. KINTNER, PH.D.	<i>Assistant Professor of History</i>
HOWARD SPENCER KRASNOW, M.S.	<i>Lecturer in Mathematics</i>
MAURICE CURTIS LANGHORNE, PH.D.	<i>Professor of Psychology</i>
	<i>Acting Chairman, Department of Education</i>
EDWARD F. LAWLER, B.S.	<i>Lecturer in Mathematics</i>
ROBERT LINDSAY, PH.D.	<i>Associate Professor of Physics</i>
ROBERT F. McCUNE, PH.D.	<i>Lecturer in Physics</i>
JOHN BARD McNULTY, PH.D.	<i>Professor of English</i>
BLANCHARD WILLIAM MEANS, PH.D.	<i>Brownell Professor of Philosophy</i>
PAUL WALTER MEYER, B.A.	<i>Lecturer in Government</i>

- CHARLES MILLER, B.S. *Instructor in Physics*
 RICHARD KNOWLES MORRIS, PH.D. *Associate Professor of Education*
 REX CHARLTON NEAVERSON, PH.D. *Assistant Professor of Government*
 GEORGE EMORY NICHOLS, III, M.F.A. *Associate Professor of Drama*
 ROBERT PETER PIKUL, M.S. *Lecturer in Mathematics*
 MARIO JOSEPH POLIFERNO, PH.D. *Assistant Professor of Mathematics*
 WILLIAM JOHN REYNOLDS, LL.B. *Lecturer in Government*
 DANIEL BOND RISDON, M.A. *Associate Professor of English*
 RICHARD SCHEUCH, PH.D. *Associate Professor of Economics*
 C. FREEMAN SLEEPER, B.D. *Instructor in Religion*
 PAUL JAMES SMITH, JR., M.A. *Instructor in English*
 STERLING BISHOP SMITH, PH.D. *Scovill Professor of Chemistry*
 ROBERT CLARENCE STEWART, M.A. *Associate Professor of Mathematics*
 FREDERICK MAYNARD STOUTLAND, PH.D. *Assistant Professor of Philosophy*
 DANIEL GARRISON BRINTON THOMPSON, PH.D. *Northam Professor of History and Political Science*
 ELLIS D. TOOKER, ED.D. *Lecturer in Education*
 LAWRENCE WILLIAM TOWLE, PH.D. *G. Fox and Company Professor of Economics*
 GLENN WEAVER, PH.D. *Assistant Professor of History*
 EMMET FINLAY WHITTLESEY, PH.D. *Associate Professor of Mathematics*
 JOHN FREDERICK WILD, PH.D. *Assistant Professor of Physics*

Courses of Instruction

Except as noted each course will meet once a week and will carry credit of three semester hours.

Classes will begin at seven in the evening and will end no later than ten. During this period of three hours instructors will at their discretion provide a recess no longer than thirty minutes.

The first semester, September to January, is known as the Christmas term; and the second semester, February to June, is known as the Trinity term.

CHEMISTRY

A two-year, full-time program in chemistry leading to the Master of Science degree is offered by Trinity College. It involves course work and an advanced research project leading to a thesis of a character suitable for publication. A reading knowledge of German is required for the M.S. degree. The Department has a limited number of graduate assistantships open to Master's degree candidates.

Graduation from an accredited college with a major in chemistry is required for admission to this program. Courses taken must include at least one year of general chemistry (with qualitative analysis included or as a separate course), and one year each of quantitative analysis, organic, and physical chemistry. Two years each of college mathematics (calculus) and college physics are also required.

Students interested in this program should consult the chairman of the Chemistry Department.

There are no evening graduate courses in chemistry.

ECONOMICS

The Master of Arts program in economics is designed for men and women in business, education, and government who seek an understanding of the nature and operation of economic systems and of the problems that those systems face, together with a command of the tools of modern economic analysis. It is designed particularly for those who desire a more thorough knowledge of our economic system in its entirety, of the interrelationships of its many parts, and of the forces responsible for its operation. While

the degree is not a degree in business administration, the work upon which it is built will be found valuable to persons in banking and finance, junior business executives, teachers of economics, and many in government posts, among others. The degree is appropriate, too, as the first stage in the graduate work of those who plan to continue their study toward the Doctor's degree in economics.

As preparation for graduate work, some background in undergraduate study of economics is desirable. A person with a deep interest in the subject, who has a good undergraduate record, and who is willing to work hard may also qualify without such a background.

All students will be required to pass with a satisfactory grade Economics 501 which is prerequisite to all other courses in the Department. Students with a strong background in economics may be permitted to elect two half-courses, to be approved by the Department, in a related field. Advice on a complete program of study may be obtained from the Dean of Graduate Studies or from any member of the Department.

In addition, every candidate must pass with a satisfactory grade Economics 651-652: Thesis. The writing of the thesis should ordinarily not be undertaken until the course work for the degree has been completed, but exceptions to this requirement may be made in unusual cases. Before a candidate begins work on his thesis, written approval of the proposed subject must be obtained from that member of the Department who is to supervise the thesis. An acceptable outline should be submitted at the earliest possible date, and the completed thesis, as approved by the thesis adviser and second reader, must be submitted not later than May 1 of the year in which the candidate expects to receive his degree. (See *Degree Requirements*, page 4.)

COURSES OFFERED IN 1961-1962

ECONOMICS 501: Price Theory — Trinity term, Wednesday. The price system and resource allocation; the theory of demand; production and cost analysis; pricing policies of business firms and market structures. — Seabury Hall 16. Mr. Curran.

ECONOMICS 531: Labor Problems — Christmas term, Monday. A study of labor problems growing out of modern economic arrangements; economics of wage determination in theory and practice; hours; unemployment; role of the state in protecting workers, especially with regard to social security; history of the labor movement. — Seabury Hall 16. Mr. Scheuch.

ECONOMICS 532: Labor Relations — Trinity term, **Monday**. Trade union structure and government; collective bargaining and its issues (union shop; hiring, promotion and discharge; technological changes, etc.); industrial disputes, unions and politics; government control of labor relations. Prerequisite: Economics 531 or permission of the instructor. — **Seabury Hall 16. Mr. Scheuch.**

ECONOMICS 541: Public Finance — Christmas term, **Tuesday**. Role and functions of the state. Financial needs and resources. A survey of the growth in the functions of the public sector. Study of the basic theoretical issues of public finance and the application of economic analysis in determining the economic effects of government fiscal policies. Particular attention is given to an analysis of various taxes and subsidies and their effects upon resource allocation and income distribution. Problems of federalism. — **Seabury Hall 16. Mr. Dunn.**

ECONOMICS 542: Fiscal Policy — Trinity term, **Tuesday**. The relationship between the government budget and income, employment, and price level. The major problems and institutional background of contemporary economic policy with special reference to the role of the budget in influencing economic growth and stability. Classical and modern theories of public debt. Debt management policy for stabilization and capital formation. Welfare economics and the public sector. — **Seabury Hall 16. Mr. Dunn.**

ECONOMICS 561: Statistics for Economics — Trinity term, **Wednesday**. Nature and importance of statistics; collection and sources of data; tabular and graphic presentation of data; ratios; fundamentals of index number construction; the frequency distribution; measure of central tendency and of variability; theory of the normal curve; sampling theory; time series analysis, including some reference to the work of the National Bureau of Economic Research; simple linear correlation; contemporary developments in statistical theory. A course designed for those who have had no previous work in statistics. — **Seabury Hall 16. Mr. Curran.**

ECONOMICS 651-652: Thesis — Christmas and Trinity terms. Conference hours by appointment. Six semester hours. Investigation and report of an original research project. See Degree Requirements, page 4. — **Mr. Towle and staff.**

COURSES AVAILABLE IN OTHER YEARS

- 511 and 512: Money and Banking**
- 521 and 522: Economic History**
- 551: International Economics**
- 575: Comparative Economic Systems**
- 581: Government and Industry**
- 585: The Corporation**
- 591: Survey of Economic Thought**

EDUCATION

Graduate study in education is broadly conceived by the Department as providing course offerings of value and interest

for (a) elementary and secondary school teachers in service, (b) prospective secondary school teachers, (c) individuals in other occupations whose work is educational in character, and (d) those persons, not professionally concerned with education, who desire to achieve a better understanding of the problems currently facing public and independent schools.

The Department has held the number of highly specialized courses to a minimum. It believes that an understanding of the history, philosophy, and psychology of education is fundamental to the formulation of sound judgments on the specific issues in education today. Many of the courses are pertinent to education at all levels of instruction in both public and independent schools. In addition, the Department recommends that the student give consideration to the course offerings of the other departments, many of which are of interest to students majoring in education.

Candidates for the Master of Arts degree with a major in education must complete at least six half-courses within the Department. The remaining four or more half-courses required for the degree may be elected in education or, with the permission of the Department, in other subject areas which will serve best the interests of the individual. A thesis (Education 651-652) is required of the majority of candidates, but a student may elect two half-courses and a comprehensive examination in lieu of a thesis with permission of the chairman of the Department.

Trinity is approved for the preparation of teachers of academic subjects in public junior and senior high schools in Connecticut. Students desiring to prepare for secondary certification must be approved as candidates for the Master's degree (in education or another subject). Those interested should consult the Department concerning the details of the State requirements.

COURSES OFFERED IN 1961-1962

EDUCATION 491-492: Student Observation and Teaching — Christmas or Trinity term. May not be taken for graduate credit. Six semester hours of undergraduate credit. A laboratory course of supervised observation and teaching experience in cooperating nearby secondary schools. The student must be able to spend in the school a minimum of one-half of a secondary school day for at least eight weeks, and must ordinarily observe or teach approximately 140 school periods. Prerequisites: approval as a candidate for the Master's degree and completion of six semester hours of study in education at Trinity College. Limited to six students each term. Additional fee: ten dollars.

EDUCATION 501: History of Education — Christmas term, Tuesday. A study of the basic ideas, institutions, and practices of contemporary education in light of their historic development from earliest times to the present. The student will be expected to refer, where possible, to primary sources — chiefly the writing of educational leaders — to reconstruct the history of educational thought. — Boardman Hall 104.

EDUCATION 502: Philosophy of Education — Trinity term, Tuesday. A systematic examination of vital philosophical issues in general educational theory. Major philosophies of education will be studied comparatively, and the student will be encouraged to construct for himself a philosophy adequate for evaluation of his subsequent professional practice. — Boardman Hall 104.

EDUCATION 503: Developmental Psychology — Christmas term, Wednesday. A study of human behavior in terms of process, with an examination of representative theories of development as to both their underlying assumptions and their implications for educational practice. Attention will be centered on normal human development throughout the life span, and physical, mental, and emotional growth will be treated as parts of total maturational patterns. — Boardman Hall 104.

EDUCATION 504: Differential Psychology — Trinity term, Monday. A study of quantitative data concerning individual, group and trait differences, and of the validity and reliability of those measuring instruments through which the data are secured. — Boardman Hall 104.

EDUCATION 521: Secondary School Teaching — Christmas term, Thursday. A study of secondary education in America, with emphasis upon current aims, curriculum patterns, and teaching methods and materials. Each student will be encouraged to pursue particular interests within his areas of academic specialization; for the student preparing to teach, course requirements will be pointed toward his professional practice. — Boardman Hall 104.

EDUCATION 541: Educational Measurement and Evaluation — Christmas term, Monday. A critical examination of principles involved in the appraisal of human behavior, with emphasis upon the construction of tests for specific purposes, the use of standard group achievement and aptitude tests, and simple statistical methods involved in the interpretation of test results. — Boardman Hall 104.

EDUCATION 600: Problems in Education — Trinity term, Wednesday. A study, through broad reading and group discussion, of basic contemporary educational problems, involving aims, functions and agencies. These problems will be traced through all levels of schooling and through such non-school educational media as the home and community agencies. — Boardman Hall 104.

EDUCATION 651-652: Thesis — Christmas and Trinity terms. Conference hours by appointment. Six semester hours. The preparation of a comprehensive paper representing an original solution to a clearly-defined, significant educational problem. See Degree Requirements, page 4. — Mr. Langhorne and staff.

COURSES AVAILABLE IN OTHER YEARS OR IN SUMMER SCHOOL

- 507: The School and Society
- 522: School Organization and Administration
- 542: Remedial Reading
- 543: Principles of Guidance
- 591-592: Directed Practice in the Teaching of Reading
- 601 and 602: Seminars. Various topics.

ENGLISH

Persons who read extensively, or who write, frequently wish to develop their critical competency or their facility in expression through guided practice. Graduate courses in English provide such an opportunity.

Those who elect courses in English and those who apply for candidacy for the Master of Arts degree with a major in English should have completed with honor grades at least three full-year courses in English as undergraduates.

There is no prescribed curriculum for the Master's degree. Each student's program of study is determined individually. In many cases the most logical program consists of those courses which will treat periods or subjects omitted in the student's undergraduate preparation. It is also possible to construct certain concentrated programs: dramatic literature, poetry, American literature, etc.

Candidates are required to take a total of ten half-courses, of which eight must be in the Department, including English 651-652 (Thesis). Courses outside the Department must be approved by the Chairman. Courses in other departments recommended to candidates in English include philosophy, history, religion, and the literature of other languages.

COURSES OFFERED IN 1961-1962

ENGLISH 505: *The Age of Chaucer* — Christmas term, Monday. An introduction to the language, art, and times of Chaucer and a consideration of the masterpieces of his early and middle periods. — Seabury Hall 12. Mr. Risdon.

ENGLISH 506: *The Age of Chaucer* — Trinity term, Monday. Chaucer's later period. *The Canterbury Tales* and other great works of the Middle English period. — Seabury Hall 12. Mr. McNulty.

ENGLISH 588: Studies in the Renaissance: Spenser — Trinity term, Tuesday. Themes, backgrounds, and literary relationships of *The Faerie Queene* and the Minor Poems. The Spenser Circle and Spenser biography. — Seabury Hall 12. Mr. Cameron.

ENGLISH 561: Studies in Romanticism: British and American — Christmas term, Tuesday. Comparative studies of some of the major works of five British and five American writers: Wordsworth, Coleridge, Byron, Shelley, Carlyle; Poe, Hawthorne, Melville, Emerson, and Thoreau; readings in criticism on the relationships between some of the literary and philosophical concepts characteristic of Romanticism and the literary forms associated with the Romantic period. — Seabury Hall 12. Mr. Smith.

ENGLISH 564: Studies in Contemporary Literature: American Poetry and Fiction — Trinity term, Thursday. Study of structure and meaning in the poems, short stories, and novels of major American writers, 1900-1960. — Seabury Hall 12. Mr. Gwynn.

ENGLISH 572: Studies in Drama: Tragedy — Trinity term, Wednesday. A study of the theory of tragedy and of major examples of tragic drama from the Greek period to the present time. — Seabury Hall 12. Mr. Nichols.

ENGLISH 575: Studies in American Literature: Short Fiction. — Christmas term, Thursday. Study of structure and meaning in the major tales, short stories, and short novels of Poe, Hawthorne, Melville, James, Crane, Hemingway, Faulkner, Salinger, and other nineteenth- and twentieth-century writers, with some attention to appropriate critical theory. — Seabury Hall 12. Mr. Gwynn.

ENGLISH 591: Studies in the History of Ideas — Christmas term, Wednesday. Religious Classics in British Literature — A critical survey of themes, values and influences, from the late Middle Ages (Thomas à Kempis, the *Ars Moriendi*, *Everyman*) through four modern centuries: the Edwardian Prayerbooks, Marlowe, the Bible in English, Browne, Donne and the Metaphysicals, Herbert, Bunyan, Taylor, Law, the Graveyard School, Coleridge and the Romantics, Newman, Thompson, Meynell, Hopkins, Sayers, Williams, and Eliot. Lectures, recordings, readings, and reports. — Seabury Hall 12. Mr. Cameron.

ENGLISH 651-652: Thesis — Christmas and Trinity terms. Conference hours by appointment. Six semester hours. A project involving scholarly research, critical thinking, and formal writing. See Degree Requirements, page 4. — Mr. Gwynn and staff.

COURSES AVAILABLE IN OTHER YEARS OR IN SUMMER SCHOOL

560: Studies in Neo-Classicism

562: Studies in Victorian Literature

573 or 574: Studies in Fiction

577 or 578: Studies in Poetry

580: Studies in Literary Criticism

582: Studies in Shakespeare

593 or 594: Studies in English Language and Linguistics

601 or 602: Advanced Literary Writing

GOVERNMENT

Although the program of graduate study in government has from its inception attracted public servants, the intention has not been to provide professional training but to widen horizons and deepen understanding of the problems of government. An increasing number of students come from the ranks of the clergy, the law, education, and other professions. Some intend to study for a Master's degree in government, while others are simply interested in the subject matter of one or more specific courses.

The Master of Arts degree with a major in government is based upon satisfactory completion of eight half-courses at graduate level in the field. In addition, two half-courses in related areas, normally history or economics, are required.

Government 501 and 502 are required of all candidates. However, where there is evidence of considerable undergraduate work of high caliber in the field, one or both of these courses may be omitted upon permission of the department chairman.

Candidates may elect to write a thesis (Government 651-652), carrying two half-courses credit, upon an approved topic. Those not presenting a thesis shall take a written comprehensive examination during the final term of study. This examination will be based upon at least two specific fields within two of the following major areas of concentration:

- Political Theory and Comparative Government
- American Government
- International Relations

COURSES OFFERED IN 1961-1962

GOVERNMENT 501: European Government — Christmas term, **Tuesday**. A study of the political systems of Great Britain, France, Germany, and the Soviet Union, designed to provide background for advanced study in political institutions. — Seabury Hall 49. Mr. Neaverson.

GOVERNMENT 512: Metropolitan Government — Trinity term, **Monday**. Problems of government and administration in metropolitan areas. Inter-governmental cooperation and the development of new forms of metropolitan government in the United States and Canada. The role of the state government. — Seabury Hall 49. Mr. Reynolds.

GOVERNMENT 535: Government and Politics of Asia — Christmas term, **Thursday**. An examination of the political institutions and problems of the principal countries of Asia, with particular attention to contemporary domestic and foreign policies of China, Japan, India, Pakistan, and Indonesia. — Seabury Hall 49. Mr. Meyer and Mr. Gastmann.

GOVERNMENT 536: Government and Politics of Africa — Trinity term, Wednesday. An examination of the political institutions and problems of the principal countries and territories of Africa. The role of African countries in world politics and international organization. — Seabury Hall 39. Mr. Ferwerda.

GOVERNMENT 621: Independent Study — Christmas or Trinity term. Individual research on a selected topic under the guidance of a department member. May be taken only once. — Mr. Ferwerda and staff.

GOVERNMENT 651-652: Thesis — Christmas and Trinity terms. Conference hours by appointment. Six semester hours. Investigation and report of an original research project. See Degree Requirements, page 4. — Mr. Ferwerda and staff.

COURSES AVAILABLE IN OTHER YEARS

- 502: American National Government
- 511: Public Administration
- 513: American Parties and Politics
- 514: American Constitutional Law
- 523: International Government
- 524: Problems of National Security
- 531: Contemporary Political Theory
- 533: Communism

HISTORY

Since the study of history provides the basis for a more thorough appreciation of man's activity in any age or geographical unit, courses in history are frequently elected by students whose primary interest is in another subject as well as by those whose major interest is history.

The Master's degree with a major in history is designed to follow an undergraduate concentration in history. Undergraduate preparation should include survey courses in ancient, European and American history. Candidates must complete at the graduate level a minimum of ten half-courses, at least eight of which must be in history, including History 651-652: Thesis. Students with extensive preparation in history may be permitted by their adviser to elect two half-courses in another department. A reading knowledge of one foreign language is required. The thesis is the final project of all candidates.

COURSES OFFERED IN 1961-1962

HISTORY 516: The Reformation — Christmas term, Tuesday. A study of the evolution of modern secular and religious institutions during the sixteenth century. — Seabury Hall 46. Mr. Kintner.

HISTORY 522: History of European International Affairs — Trinity term, Thursday. A continuation of History 521 from the Franco-Prussian War to the final collapse of Europe as a center of world power in 1945. A reading knowledge of French or German is required. — Seabury Hall 46. Mr. Cassels.

HISTORY 550: History of New England — Trinity term, Wednesday. The concept of regionalism; political, intellectual and social development during the colonial and national periods; industrialization, immigration; cultural conflicts and adjustments. — Seabury Hall 46. Mr. Weaver.

HISTORY 551: The Colonial Period in American History — Christmas term, Wednesday. The background and the political, economic and social history of the period. — Seabury Hall 46. Mr. Weaver.

HISTORY 552: United States History; The Formative Years — Trinity term, Monday and Wednesday, 4:45-6:00 p.m. An assessing of the contributions of the Colonial Period, and the dangers of the Critical Period; the framing of the Constitution, and the early development of the nation. — Seabury Hall 46. Mr. Thompson.

HISTORY 553: American Sectionalism and the Civil War — Christmas term, Thursday. A survey of the political, economic and social history of the United States from 1815 to 1865, stressing the struggle between national and sectional influences. A brief consideration of the Civil War and of the Confederate States will be included. — Seabury Hall 46. Mr. Luthin.

HISTORY 601: Seminar: The Twelfth Century — Christmas term, Monday. An examination of the various aspects of this century in Western Europe. The Moslem world and the Byzantine Empire will be referred to as may be necessary. Papers will be written on selected topics. — Library Seminar Room 1. Mr. Downs.

HISTORY 602: Seminar: The Twelfth Century — Trinity term, Monday. See description of History 601. History 601 is not a prerequisite. — Library Seminar Room 1. Mr. Downs.

HISTORY 651-652: Thesis. Conference hours by appointment. Six semester hours. Investigation and report of an original research project. See Degree Requirements, page 4. — Mr. Thompson and staff.

COURSES AVAILABLE IN OTHER YEARS OR IN SUMMER SCHOOL

506: Alexander the Great and the Hellenistic Era, 338 B.C. to 200 B.C.

508: The Roman Empire, 44 B.C. to A.D. 180

511: The Middle Ages

512: The Byzantine Empire and Islam

515: The Italian Renaissance

517: Europe, 1760-1870

521: European Diplomatic History, 1480-1870

525: England, 1714-1945

532: The Third French Republic

538: Modern Italy, 1815-1943

541 and 542: Russia

575: Canada

601 and 602: Seminars. Various topics.

ITALIAN

The courses in Italian literature in translation are designed particularly for students of history and of English literature. They are made available as a part of the activity of the Cesare Barbieri Center of Italian Studies.

COURSES AVAILABLE IN OTHER YEARS

551: **Italian Renaissance Literature in translation**

560: **The Contemporary Italian Novel**

MATHEMATICS

The Department of Mathematics offers a graduate program in mathematics which leads to the degree of Master of Science. It is designed for those who wish to supplement their training in mathematics, and broaden their mathematical background.

The degree of Master of Science in mathematics is conferred upon students who have received a Bachelor's degree with an undergraduate concentration in mathematics, and have successfully completed ten graduate half-courses in mathematics, or eight in mathematics and two in physics. The mathematics courses shall include Mathematics 503, 504 (Theory of Functions of a Real Variable I, II) and Mathematics 507, 508 (Theory of Functions of a Complex Variable I, II). A student who has not taken a course in advanced calculus will normally be required to do so, but this course will not be credited toward the Master's degree. A thesis is not required.

COURSES OFFERED IN 1961-1962

MATHEMATICS 305: Theory of Probability — Christmas term, Tuesday and Thursday, 7:00-8:15. Permutations and combinations, definitions of probability, theorems for calculation of probabilities, continuous and geometric probability, random variables, frequency and distribution functions, nature of statistical methods. Prerequisite: credit for mathematics 202 or its equivalent. This course may be taken for undergraduate credit but will not be credited toward the requirements for the Master's degree with a major in mathematics. — Boardman Hall 214. Mr. Krasnow.

MATHEMATICS 306: Mathematical Statistics — Trinity term, Tuesday and Thursday, 7:00-8:15. Empirical and theoretical frequency distributions of one variable, moments, moment generating functions, limit theorems, sampling theory, the two-dimensional case, correlation and regression, goodness of fit, statistical inference, small sample distributions. Prerequisite: credit for Mathematics 305. This course may be taken for undergraduate credit but will not be credited toward the requirements for the Master's degree with a major in mathematics. — Boardman Hall 214. Mr. Krasnow.

MATHEMATICS 500: Advanced Calculus — Christmas term, Monday and Wednesday, 7:00-8:15. The purpose of this course is to provide a sound background necessary for graduate study in mathematics. (Compare with Mathematics 500A.) The emphasis is on the understanding of the basic concepts of the calculus. Among the topics considered are limits, continuity, differentiation, multiple integration, and infinite series. Prerequisite: differential and integral calculus or permission of instructor. This course may be taken for graduate credit but will not be credited toward the requirements for the Master's degree with a major in mathematics. — Boardman Hall 211. Mr. Whittlesey.

MATHEMATICS 500: Advanced Calculus — Trinity term, Monday and Wednesday, 7:00-8:15. A repetition in the second semester of the course described above. — Boardman Hall 211. Mr. Poliferno.

MATHEMATICS 500A: Advanced Calculus — Christmas term, Tuesday and Thursday, 7:00-8:15. This course is designed primarily for students in the physical sciences. Its purpose is to present topics of mathematics which are of common importance in various fields of application. Among those included are infinite series, power series solutions of differential equations, introduction to Laplace transform, Fourier series, and vector analysis. Prerequisite: differential and integral calculus or permission of instructor. — Boardman Hall 212. Mr. Pikul.

MATHEMATICS 500A: Advanced Calculus — Trinity term, Tuesday and Thursday, 7:00-8:15. A repetition in the second semester of the course described above. — Boardman Hall 212. Mr. Pikul.

MATHEMATICS 503: Theory of Functions of a Real Variable I — Christmas term, Monday and Wednesday, 7:00-8:15. The real number system, elementary point-set theory, convergence, infinite series, continuity, differentiability, improper integrals. Prerequisite: Mathematics 500 or its equivalent. The first meeting of this course will be devoted to an examination in advanced calculus which will be required of all who have not satisfactorily completed Mathematics 500 or its equivalent. — Boardman Hall 213. Mr. Ahlberg.

MATHEMATICS 504: Theory of Functions of a Real Variable II — Trinity term, Monday and Wednesday, 7:00-8:15. Integrability, the Riemann integral, the Lebesgue integral, Fubini theorem. Prerequisite: Mathematics 503. — Boardman Hall 213. Mr. Ahlberg.

MATHEMATICS 505: Theory of Probability — Christmas term, Tuesday and Thursday, 7:00-8:15. Stochastic variable, axiomatic definition of mathematical probability, probability functions, density functions, joint distributions, functions of stochastic variables, moments, tests of statistical hypotheses, random sampling. Prerequisite: Mathematics 500. — Boardman Hall 211. Mr. Williams.

MATHEMATICS 506: Mathematical Statistics — Trinity term, Tuesday and Thursday, 7:00-8:15. Correlation and regression, tests of statistical hypotheses, small sample distributions, analysis of variance, topics in calculus, central limit theorem, Poisson distribution, laws of large numbers. Prerequisite: Mathematics 505. — Boardman Hall 211. Mr. Williams.

MATHEMATICS 507: Theory of Functions of a Complex Variable I—Christmas term, Tuesday and Thursday, 7:00-8:15. A rigorous treatment of the theory of functions of a single complex variable. The algebra of complex numbers, analytic functions, complex integration, Cauchy integral theorem and formulas, power series. Prerequisite: Mathematics 504 or its equivalent. — Boardman Hall 213. Mr. Hoffman.

MATHEMATICS 508: Theory of Functions of a Complex Variable II—Trinity term, Tuesday and Thursday, 7:00-8:15. The expansion of analytic functions in series, poles, essential singularities, contour integration, the calculus of residues, analytic continuation, conformal mapping, entire functions. Prerequisite: Mathematics 507. — Boardman Hall 213. Mr. Hoffman.

MATHEMATICS 509: Numerical Mathematical Analysis and Machine Methods I—Christmas term, Wednesday, 7:00-10:00 p.m. and Saturday, 8:30-12:00 a. m. Four semester hours. Numerical solution of equations, interpolation, numerical integration and differentiation, finite difference methods, programming for a large digital electronic data processing system. Prerequisite: differential and integral calculus. — Boardman Hall 212 and United Aircraft Corporation Research Laboratories Machine Computation Laboratory. Mr. Lawler.

MATHEMATICS 510: Numerical Mathematical Analysis and Machine Methods II—Trinity term, Wednesday 7:00-10:00 p. m. and Saturday 8:30-12:00 a.m. Four semester hours. Topics from matrix algebra, numerical solution of differential equations, least squares polynomial approximations, Gaussian quadrature. Prerequisite: differential equations and Mathematics 509. — Boardman Hall 212 and United Aircraft Corporation Research Laboratories Machine Computation Laboratory. Mr. Lawler.

MATHEMATICS 514: Symbolic Logic—Christmas term, Monday and Wednesday, 7:00-8:15. An introductory course in the fundamental concepts of mathematical logic, with emphasis on the formal properties of logical systems. Prerequisite: Mathematics 500 or its equivalent. — Boardman Hall 214. Mr. Poliferno.

MATHEMATICS 515: Introduction to Modern Algebra—Trinity term, Monday and Wednesday, 7:00-8:15. A formal approach to fundamental concepts such as groups, rings, fields, together with their applications to other parts of mathematics and to physics and philosophy. Prerequisite: Mathematics 500 or its equivalent. — Boardman Hall 214. Mr. Stewart.

COURSES AVAILABLE IN OTHER YEARS OR IN SUMMER SCHOOL

516: Operational Calculus

517: Topology

521: Vector Analysis

522: Vector and Tensor Analysis

525 and 526: Topics from Analysis

PHILOSOPHY

Trinity's degree program in philosophy is planned, not necessarily as preparation for professional work in philosophy, but primarily to provide an opportunity for mature students to investigate the fundamental thinking of mankind. Previous undergraduate study of philosophy is not required. To qualify for the Master's degree the student must complete ten half-courses, eight of which must be in philosophy, including Philosophy 651-652: Thesis. No specific course or sequence of courses is required, but candidates are encouraged to seek the counsel of members of the Department in planning their program of study. Registration in courses from other departments which are to be applied toward the degree requirements in philosophy must be approved in advance by the Dean of Graduate Studies.

COURSES OFFERED IN 1961-1962

PHILOSOPHY 541: Special Studies in Philosophy: Plato — Christmas term, Thursday. — Seabury Hall 39. Mr. Stoutland.

PHILOSOPHY 551: Special Studies in Philosophy: Epistemology — Christmas term, Tuesday. — Seabury Hall 39. Mr. Anderson.

PHILOSOPHY 552: Special Studies in Philosophy: Kant — Trinity term, Thursday. — Seabury Hall 39. Mr. Stoutland.

PHILOSOPHY 651-652: Thesis — Christmas and Trinity terms. Conference hours by appointment. Intensive inquiry into a special area of philosophy under the direction of a member of the department. See Degree Requirements, page 4. — Mr. Means and staff.

COURSES AVAILABLE IN OTHER YEARS

- 501: Philosophy of Science
- 505: Philosophy of Art
- 506: Philosophy of History
- 508: Philosophy of Religion
- 521: Political Philosophy
- 531: History of Philosophy
- 532: History of Modern Philosophy
- 601 and 602: Seminars: various topics.

PHYSICS

The program in physics leading to the Master of Science degree is designed for engineers, mathematicians and physicists in industry and others who desire further training in mathematical

physics and knowledge of recent developments in the atomic field.

The courses are planned to follow an undergraduate concentration in physics and mathematics. For the degree, no one course is specifically required, and four half-courses of the ten required for the degree may, with the approval of the student's adviser, be taken in mathematics. Recommended courses in mathematics include Mathematics 500A if the student has not had such a course, real and complex variables, modern algebra and matrix theory, vector and tensor analysis. A thesis is not required.

COURSES OFFERED IN 1961-1962

PHYSICS 500: Fundamental Principles of Physics — Trinity term, Monday and Wednesday, 7:00-8:15. No credit. The course is designed to help prepare those who wish to take graduate courses in physics but who have not completed an undergraduate major in physics. The mathematical formulation of the fundamental principles of physics will be reviewed with special emphasis on mechanics and electro-magnetism. Familiarity with the calculus, differential equations and vector rotation will be developed through the analysis and solution of theoretical problems. — Broadman Hall 213. Mr. Kingsbury.

PHYSICS 501: Introduction to Theoretical Physics — Christmas term, Monday and Wednesday, 7:00-8:15. Analytical mechanics; vector analysis; statics and dynamics of particles and rigid bodies; Lagrange's and Hamilton's equations. Emphasis is placed on the fundamental hypotheses upon which physical theory is based; with the aid of analysis these fundamental principles are expressed in various mathematical forms and are applied to specific problems. The course is designed to provide a broad foundation for subsequent specialized graduate work. Qualification for this course includes at least two college courses in physics and two in mathematics. In addition, following an examination which will be administered at the first meeting of the course some students may be required to complete Mathematics 500A and Physics 500 prior to enrollment in Physics 501. — Jarvis Laboratory 1-1. Mr. McCune.

PHYSICS 502: Introduction to Theoretical Physics — Trinity term, Monday and Wednesday, 7:00-8:15. Elastic media; elastic waves and sound; fluid dynamics; heat flow; thermodynamics; classical and quantum statistics. Prerequisite: Physics 501. — Jarvis Laboratory 1-1. Mr. McCune.

PHYSICS 503: Electromagnetism — Christmas term, Tuesday and Thursday, 7:00-8:15. Field theory of electromagnetism; electrostatics; dielectrics; magnetic fields of currents; magnetic materials; electromagnetic induction and Maxwell's equations; electromagnetic waves and energy flow. — Jarvis Laboratory 1-1. Mr. Wild.

PHYSICS 504: Electromagnetism — Trinity term, Tuesday and Thursday, 7:00-8:15. The wave equation applied to wave guides and radiation scattering; radiation from an accelerated charge. Prerequisite: Physics 503. — Jarvis Laboratory 1-1. Mr. Wild.

PHYSICS 513: Quantum Mechanics — Christmas term, Monday and Wednesday, 4:30-5:45. The physical basis of quantum mechanics. The Schrödinger wave equation; energy levels; collision theory; approximation methods. Prerequisite: a course in theoretical physics. — **Jarvis Laboratory 2-1. Mr. Miller.**

PHYSICS 514: Quantum Mechanics — Trinity term, Monday and Wednesday, 4:30-5:45. A continuation of Physics 513. Prerequisite: Physics 513. — **Jarvis Laboratory 2-1. Mr. Miller.**

PHYSICS 515: Solid State Physics — Trinity term, Tuesday and Thursday, 4:30-5:45. A general introductory course in the physical properties of solids starting with crystal structure, elastic constants and specific heat. Magnetic and electrical properties will subsequently be treated including para-, ferro-, and antiferromagnetism as well as metallic and semiconductivity. Prerequisite: Physics 501, 502 or equivalent course in theoretical physics. — **Jarvis Laboratory 2-1. Mr. Lindsay.**

COURSES AVAILABLE IN OTHER YEARS

511 and 512: **Modern Physics**

516: **Nuclear Physics**

601 and 602: **Research**

RELIGION

The courses in religion are designed for laymen of all faiths. They do not presuppose any academic instruction in religion.

COURSES OFFERED IN 1961-1962

RELIGION 511: Major Figures of the Bible — Christmas term, Wednesday. Intensive study each year of one of the principal contributors to the development of biblical thinking. In 1961, an examination of the traditions in the first century concerning the life and teachings of Jesus of Nazareth. — **Seabury Hall 39. Mr. Sleeper.**

Masters Degrees

Conferred at the Commencement
June 11, 1961

MASTER OF ARTS

PHILIP JOHN ACQUAVIVA	B.S., 1933, Trinity College
WILLIAM IRVING ATWOOD	B.A., 1950, Wesleyan University
ALBERT SOMEBANG BACDAYAN	B.S. in Ed., 1956, University of the Philippines
LUCY ELMER BALISE	B.S., 1950, Smith College
LOIS ELEANOR CAMPBINE	B.A., 1951, Barnard College
ALICE JANE BURGER CHENEY	B.A., 1931, Connecticut College
WILLIAM AUSTIN CLARK	B.A., 1951, University of Maine
NANCY JANE CZATT	B.A., 1952, Oberlin College
ALBA PRISCO D'AMICO	B.S., 1957, St. Joseph College
BETTE JOYCE DEL GIORNO	B.A., 1954, University of Connecticut
HENRY CAMPBELL DIXON, JR.	B.A., 1949, Bowdoin College
ISABEL SHELTON FAIRCHILD	B.A., 1935, Carnegie Institute of Technology
EVANGELINE ANNA FTERGIOTIS	B.S., 1956, University of New Hampshire
BERNARD ALBERT GILMAN	B.A., 1937, University of Richmond
RICHARD NEIL GOODIN	B.A., 1953, University of Maine
KENNETH WILLIAM DAVID GRAHAM	B.A., 1934, Trinity College
WALTER KERWIN KENNEDY	B.A., 1955, Bucknell University
LILLIAN NANCY KEZERIAN	B.A., 1953, Wheaton College
JOHN FRANCIS LAMAR	B.S., 1958, Florida Southern College
LETA WEISS MARKS	B.A., 1953, Connecticut College for Women
RAYMOND JOSEPH MOYLAN, JR.	B.A., 1954, Trinity College
ALFRED CHRISTOPHER O'CONNELL	B.A., 1952, M.A. in Ed., 1954, University of Hartford
RICHARD BARTLETT OLNEY	B.S., 1940, The Citadel
ROSE MARY PATERNOSTRO	B.S., 1955, St. Joseph College
ARTHUR I. PETRILLO	B.S., 1951, University of Connecticut
FRANK EDWARD PLUMRIDGE	B.A., 1955, University of Hartford
FRANCES NORRIS ROBINSON	B.A., 1942, Connecticut College for Women
LOUIS REID RUSSELL	B.A., 1939, University of Maine
ALAN KENT SALMON	B.A., 1960, Trinity College
CAROL THERÈSE SHEA	B.A., 1958, St. Joseph College
MAXWELL SINGER	B.A., 1934, College of the City of New York
AMY BOWLES SLADE	B.A., 1955, Smith College
MAXINE B. SPITZLER	B.A., 1954, St. Joseph College
EDWARD STANLEY SWANSON	B.S., 1958, University of Bridgeport
ANNE HAVILAND TAYLOR	B.A., 1940, Wellesley College
LOUIS FRANCIS VISMONTAS	B.S., 1949, Trinity College

MASTER OF SCIENCE

PETER EDWARD DEMAREST	B.S., 1956, Princeton University
ARTHUR CHARLES HOUSMAN	B.S. in Ed., 1953, Bridgewater State Teachers College
ROBERT GEORGE RIDDELL	B.S., 1959, Trinity College
DONALD FRANCIS SULLIVAN	B.S., 1949, College of the Holy Cross

SPECIAL NOTICES

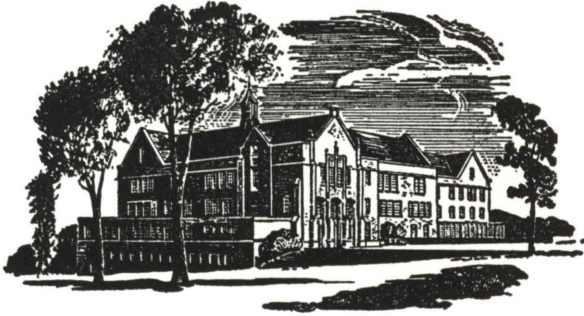
In case of inclement weather it should be assumed that classes will meet. No radio announcement will be made. Students are expected to use their discretion when driving conditions are hazardous.

Students should note these changes in regulations:

in re withdrawal from a course — page 7;

in re grades lower than pass — page 5.

Students must park their cars in areas reserved for students. Fines will be levied against those whose cars are parked along driveways or in restricted areas.



TRINITY COLLEGE, HARTFORD 6, CONNECTICUT
REGISTRATION FOR GRADUATE COURSES

TRINITY TERM ONLY

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MRS. _____
MR. _____

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HOME TELEPHONE _____ BUSINESS TELEPHONE _____

COLLEGE LAST ATTENDED _____ DATES OF ATTENDANCE _____

DEGREE HELD _____ COLLEGE _____ YEAR REC'D _____

CITIZEN OF U. S.? _____ UNDER G. I. BILL? _____

SUBJECT COURSE No. DAY

EXAMPLE:	ECON.	502	TUESDAY
1.			
2.			

PLEASE COMPLETE BOTH SECTIONS OF THIS CARD

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REGISTRATION FOR GRADUATE COURSES

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MRS. _____
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FOR _____ HALF COURSES IN THE TRINITY TERM AND REGISTRATION FEE OF FIVE DOLLARS.

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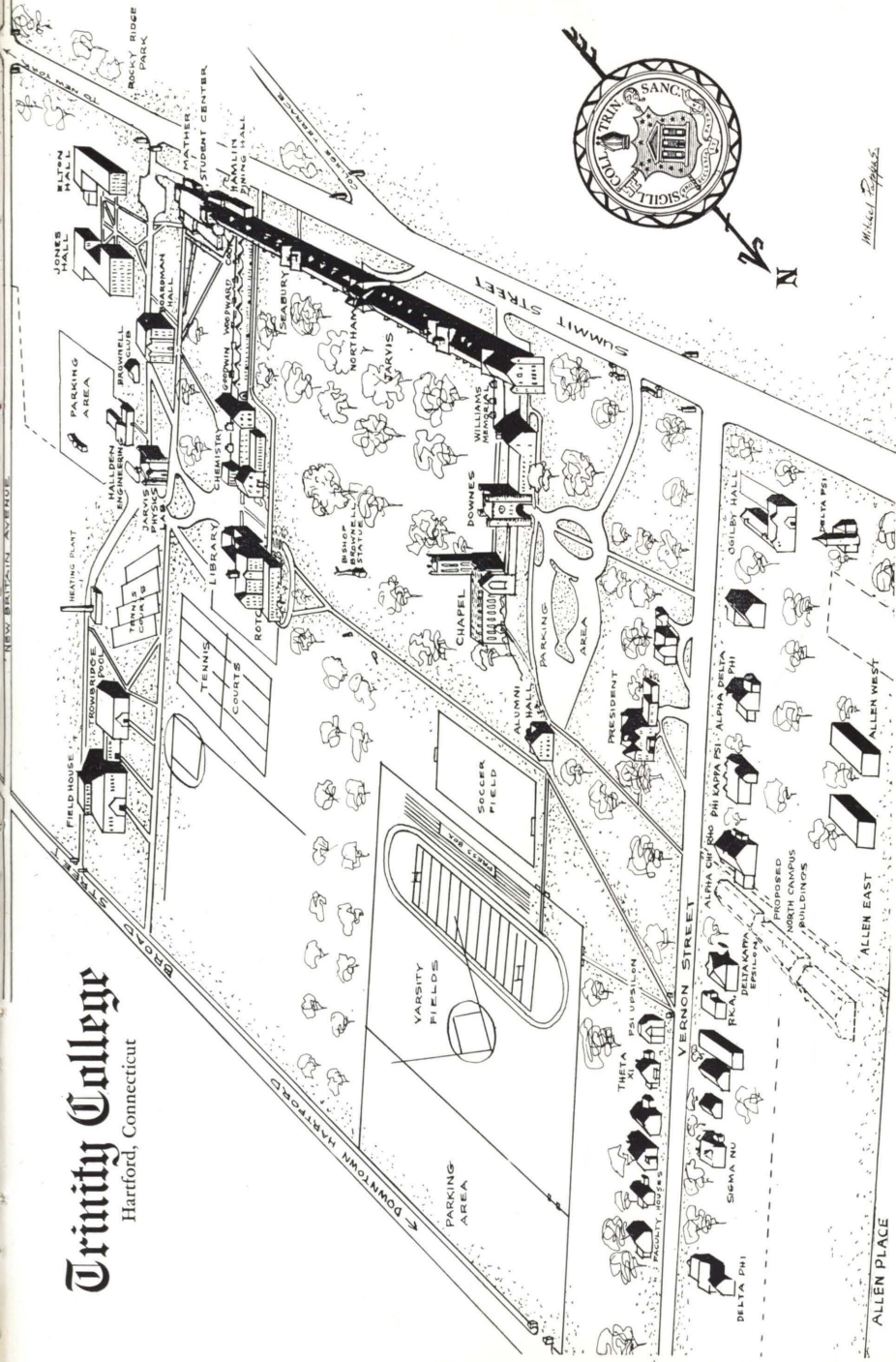
Please use the cards above for Trinity term registration. Registration for the Trinity term will not be accepted prior to January 1 and must be accompanied by payment of tuition in full and registration fee.

Registration for the Christmas term must be made on the cards at the front of the catalogue.

Trinity College

Hartford, Connecticut

NEW BRITAIN AVENUE



Walter Dwyer

*United Aircraft Corporation Research Computation Laboratory
used by students in Mathematics 509, 510.*

